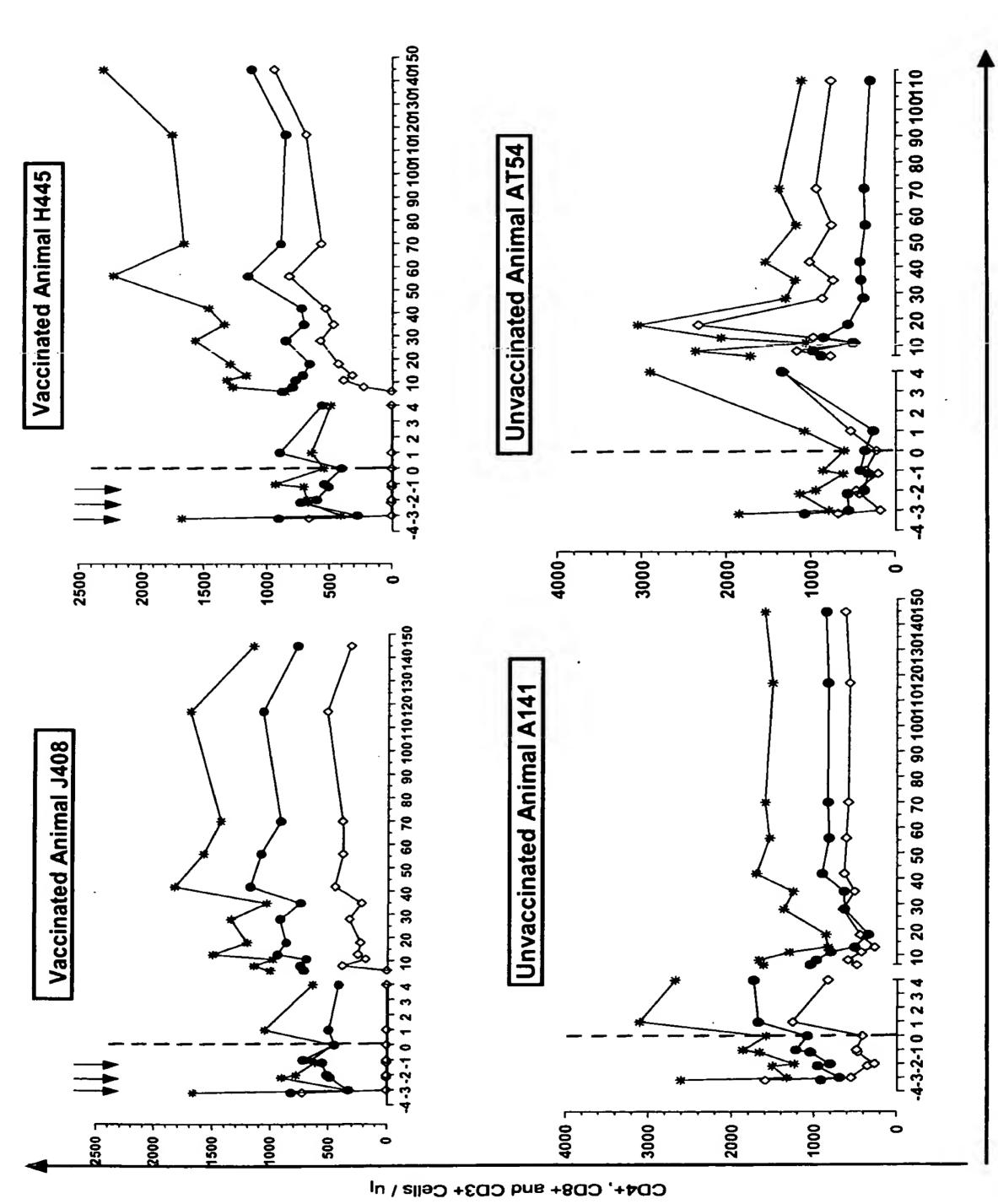
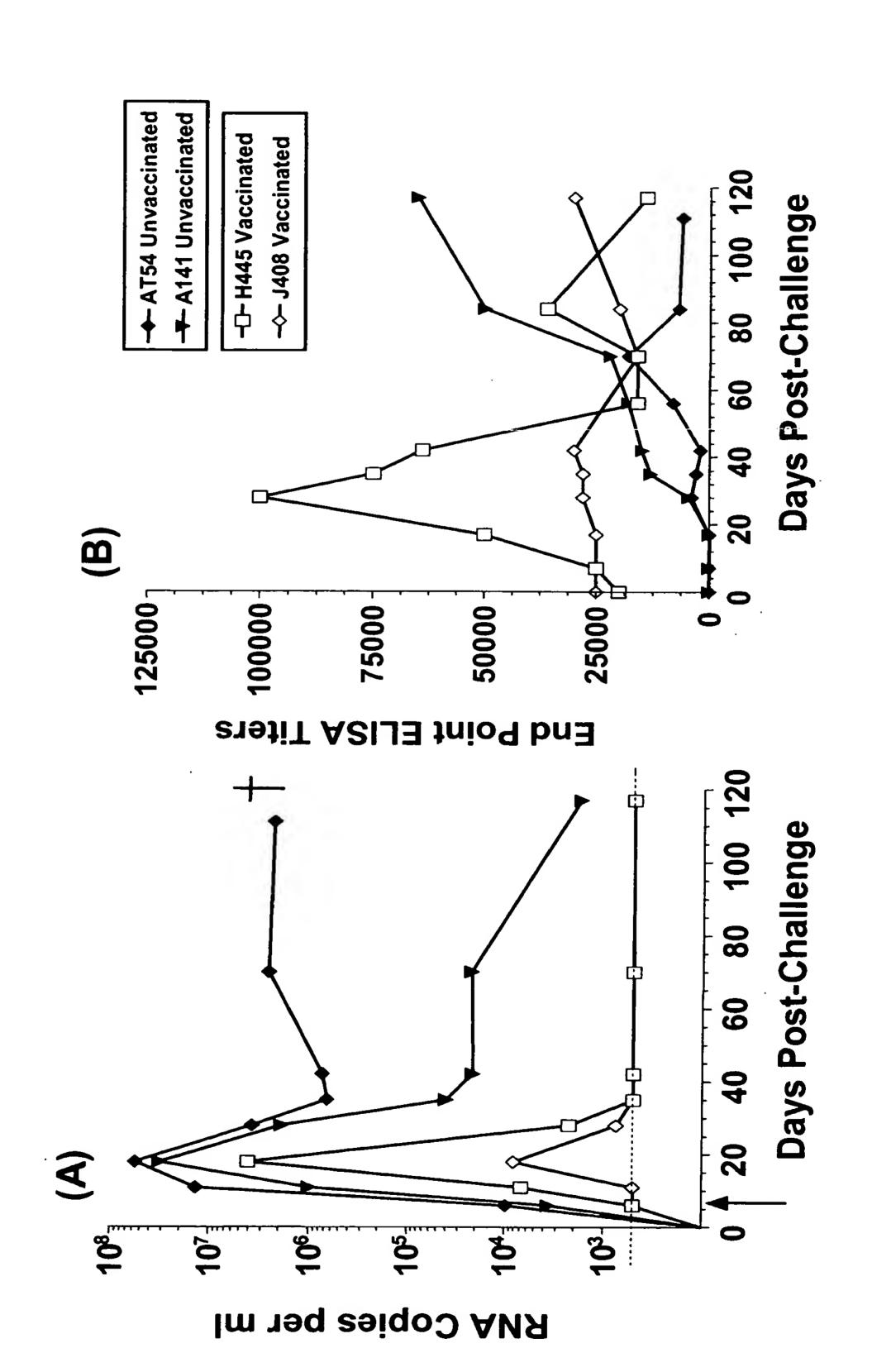


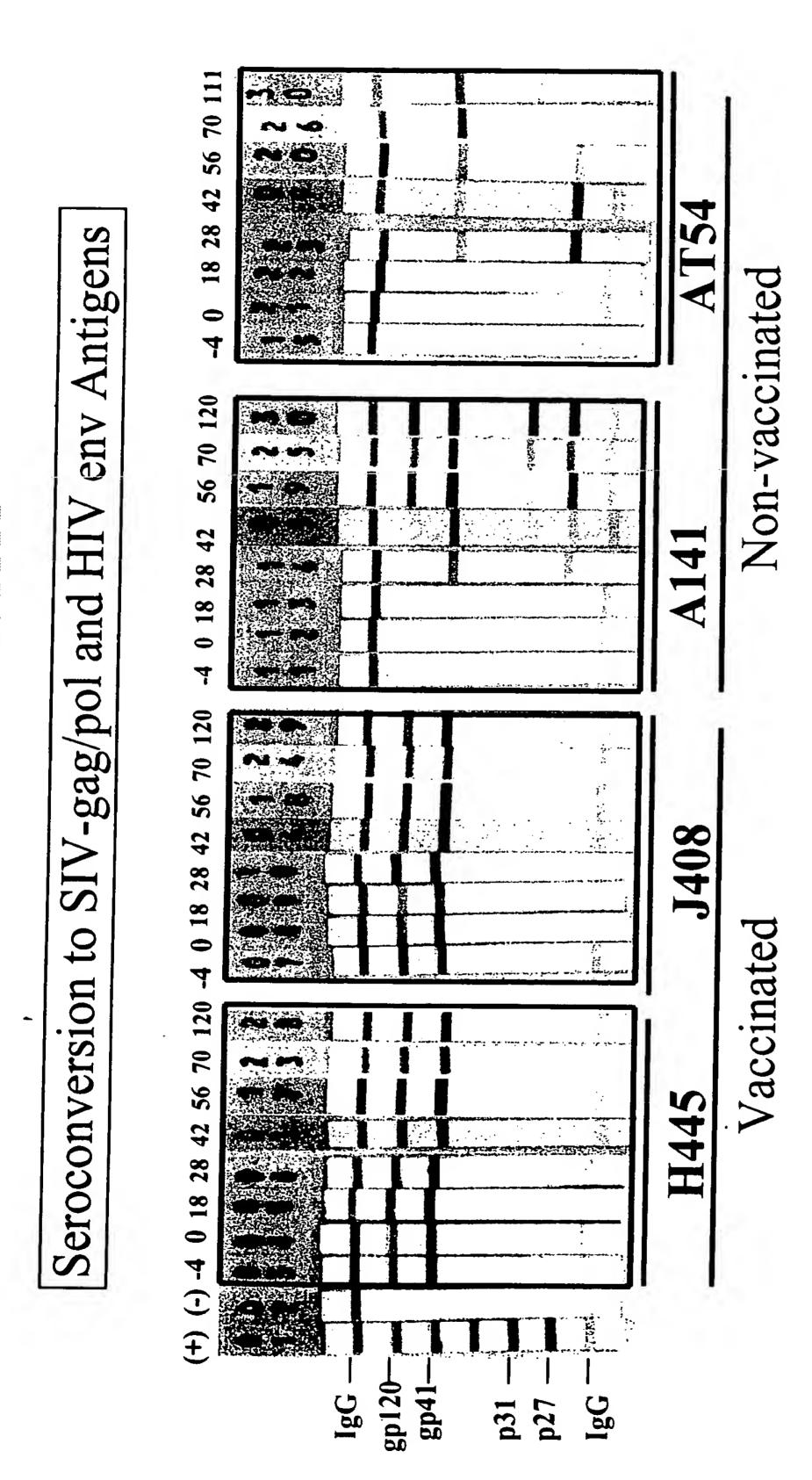
2570-1-001N FIGURE 2

Days Post-Challenge

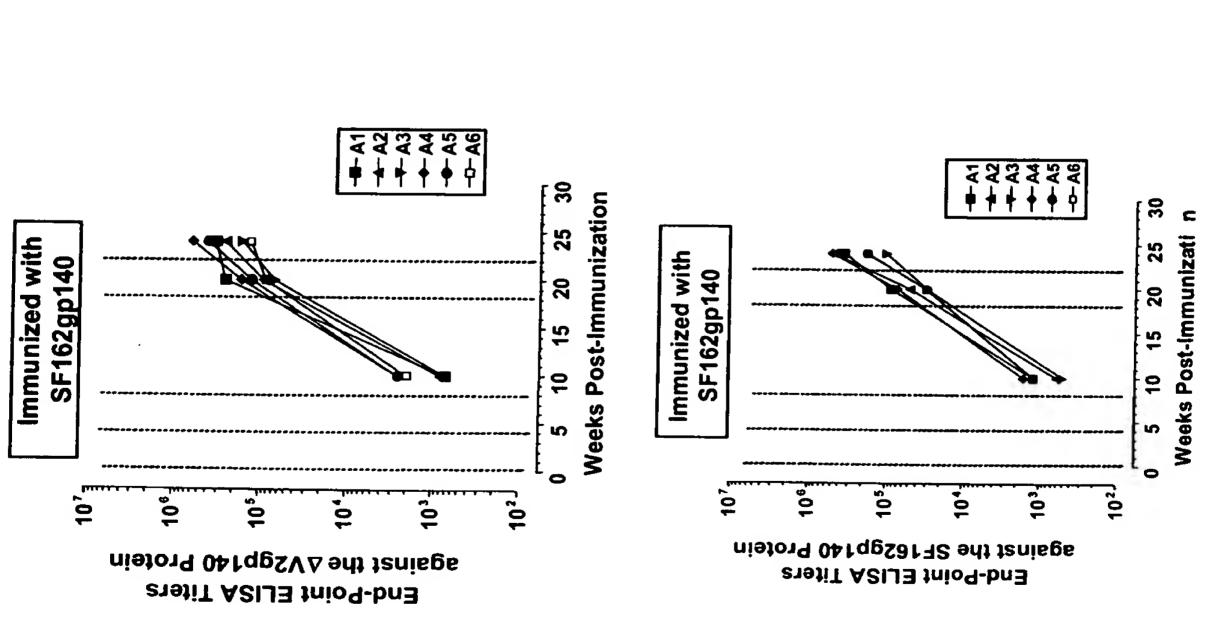


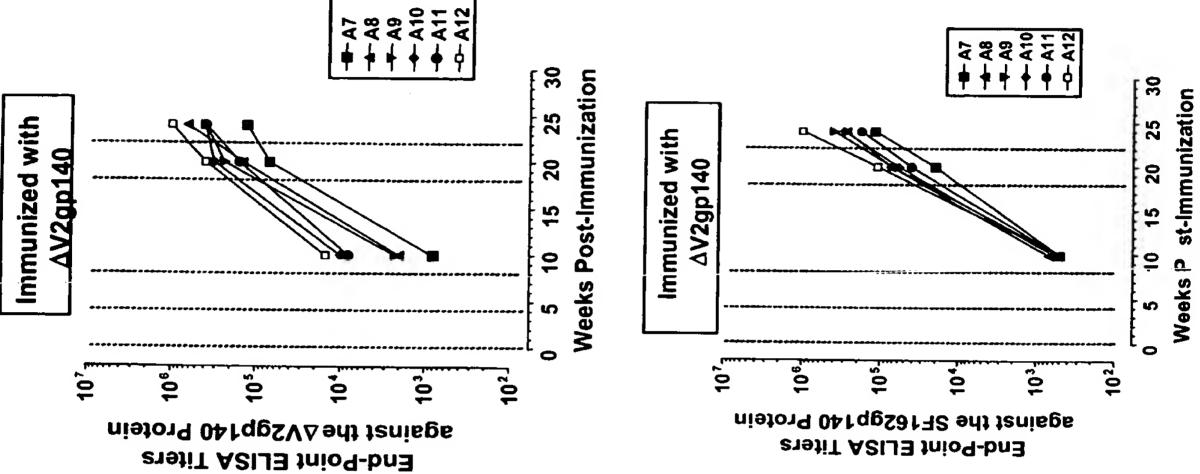
570-1-001N FIGURE 4



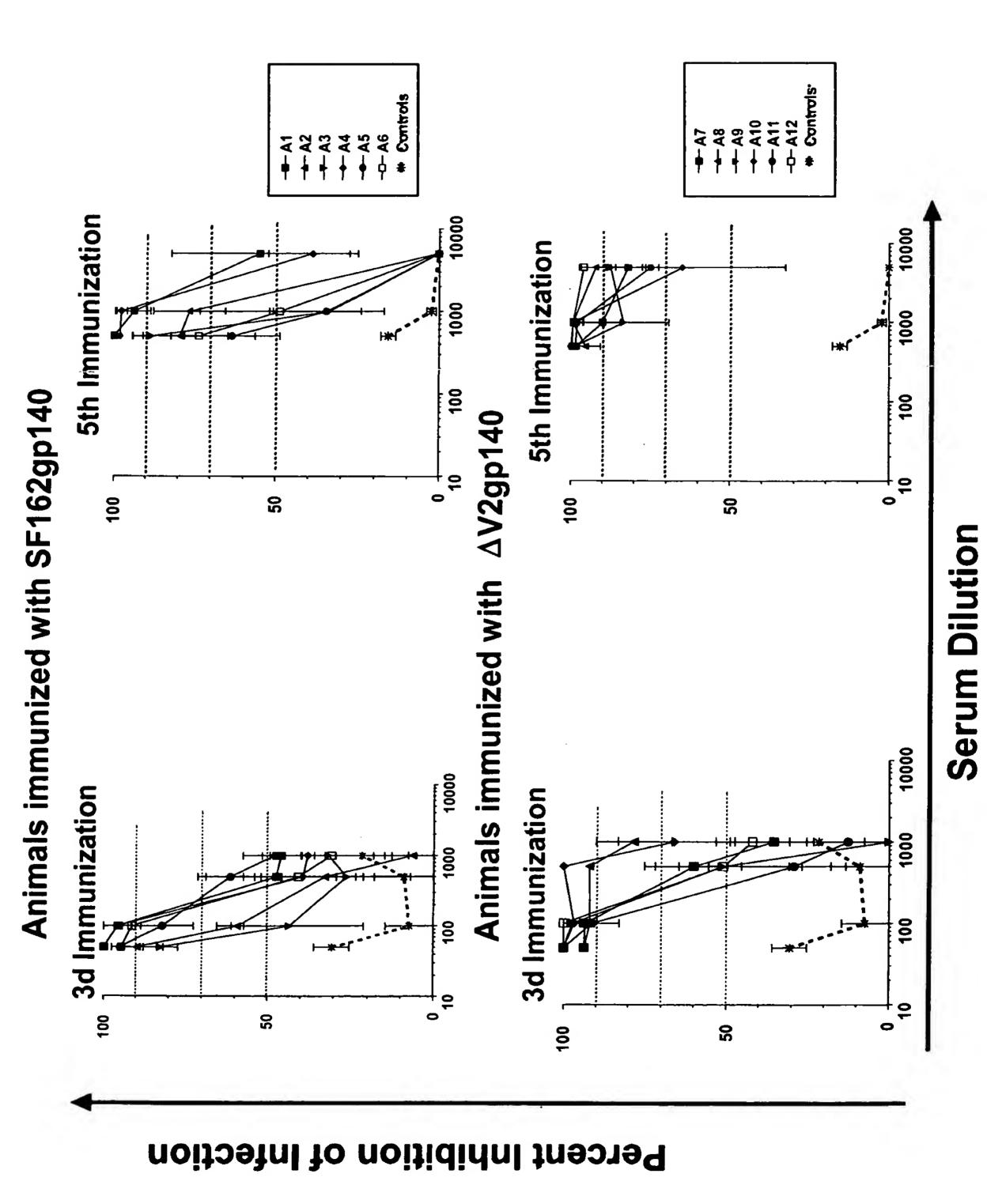


2570-1-001N FIGURE 5





2570-1-001N FIGURE 7a

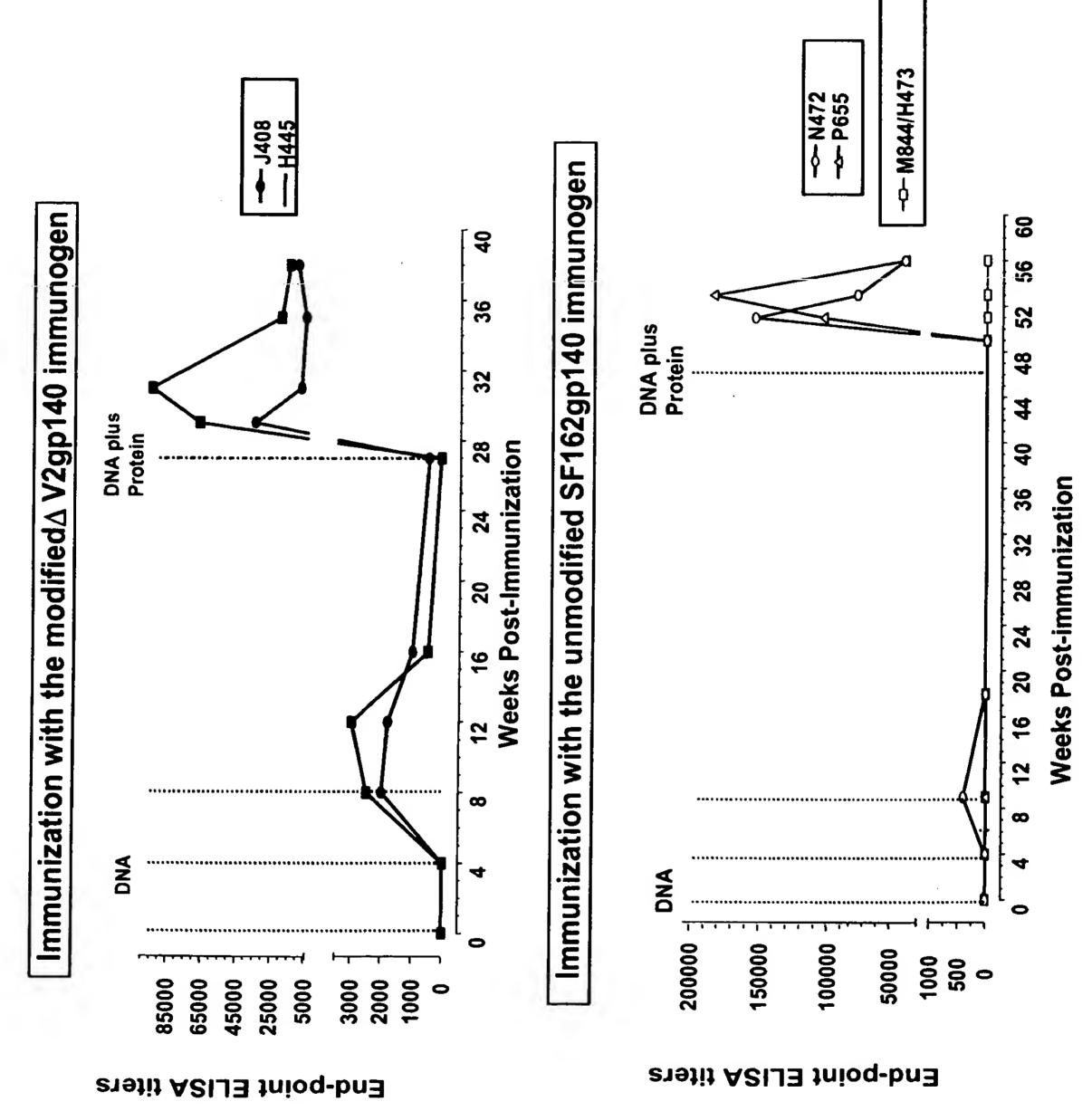


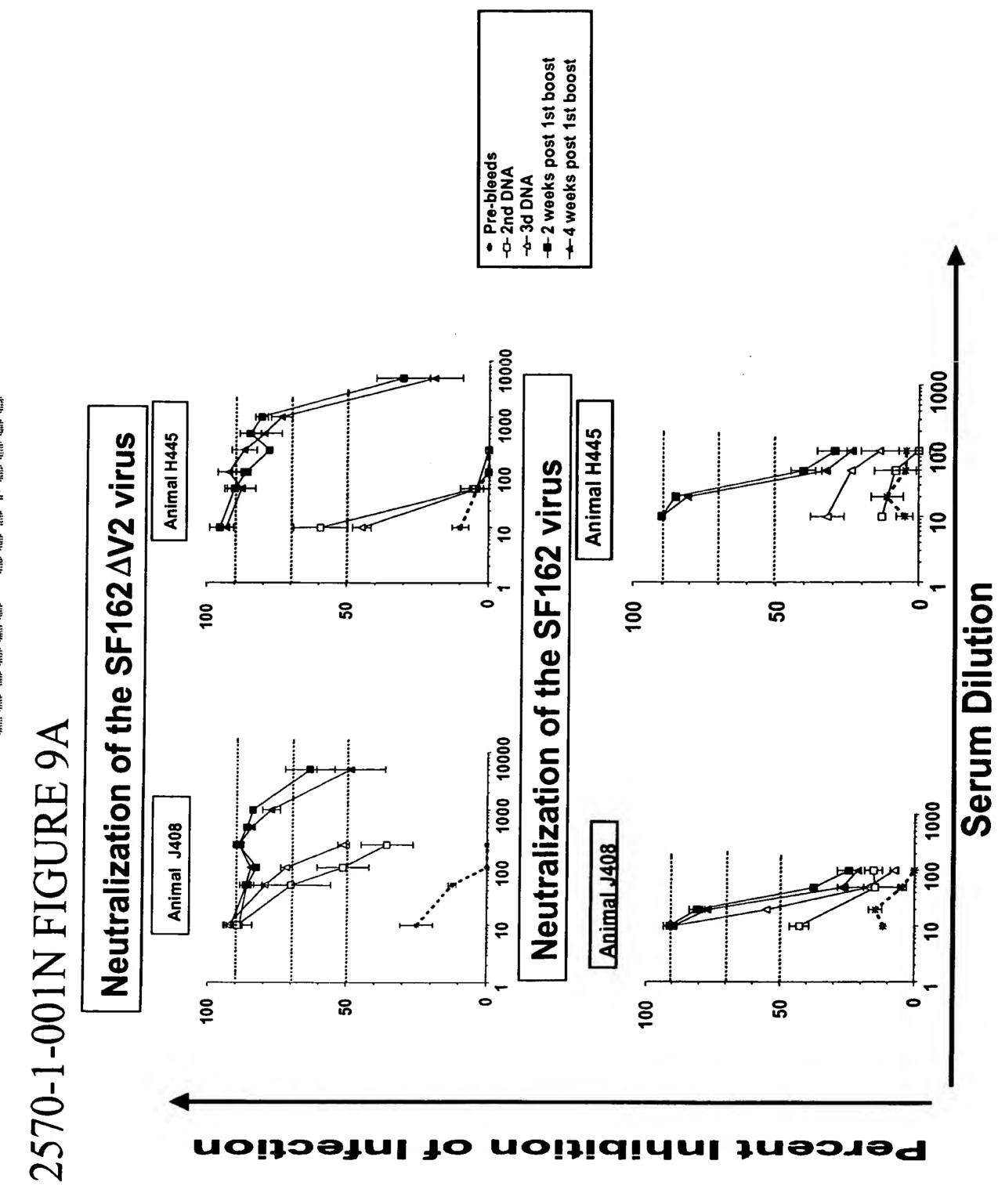
2570-1-001N FIGURE 7B 5th Immunization 5th Immunization 100 10 9 Animals Immunized with SF162gp140 unized with AV2gp140 20 0 20 0 3d Immunization 1000 Animals imm 3d Immunization 20 20 100 Percent Inhibition of Infection

um Dilution

Ser

2570-1-001N FIGURE 8

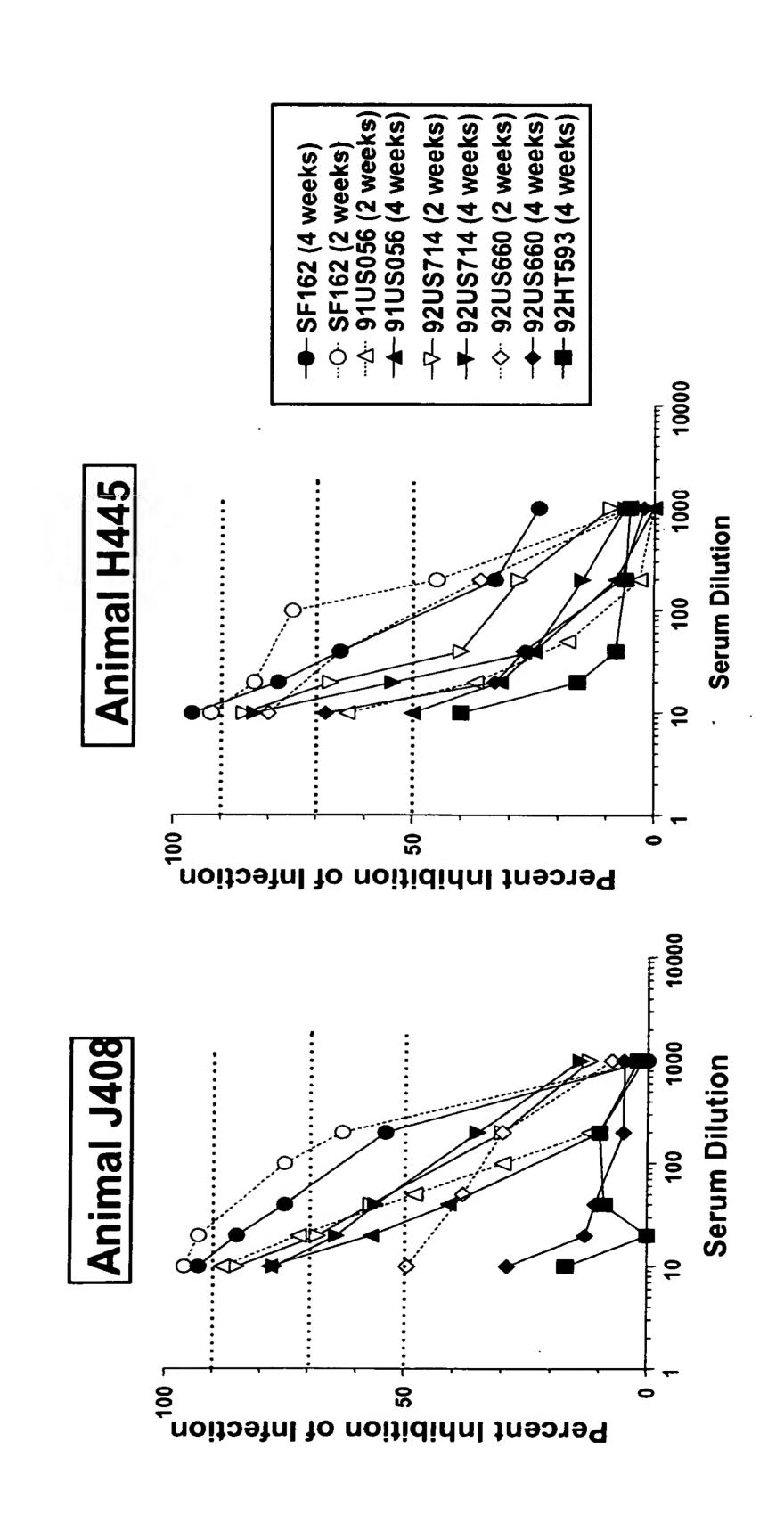




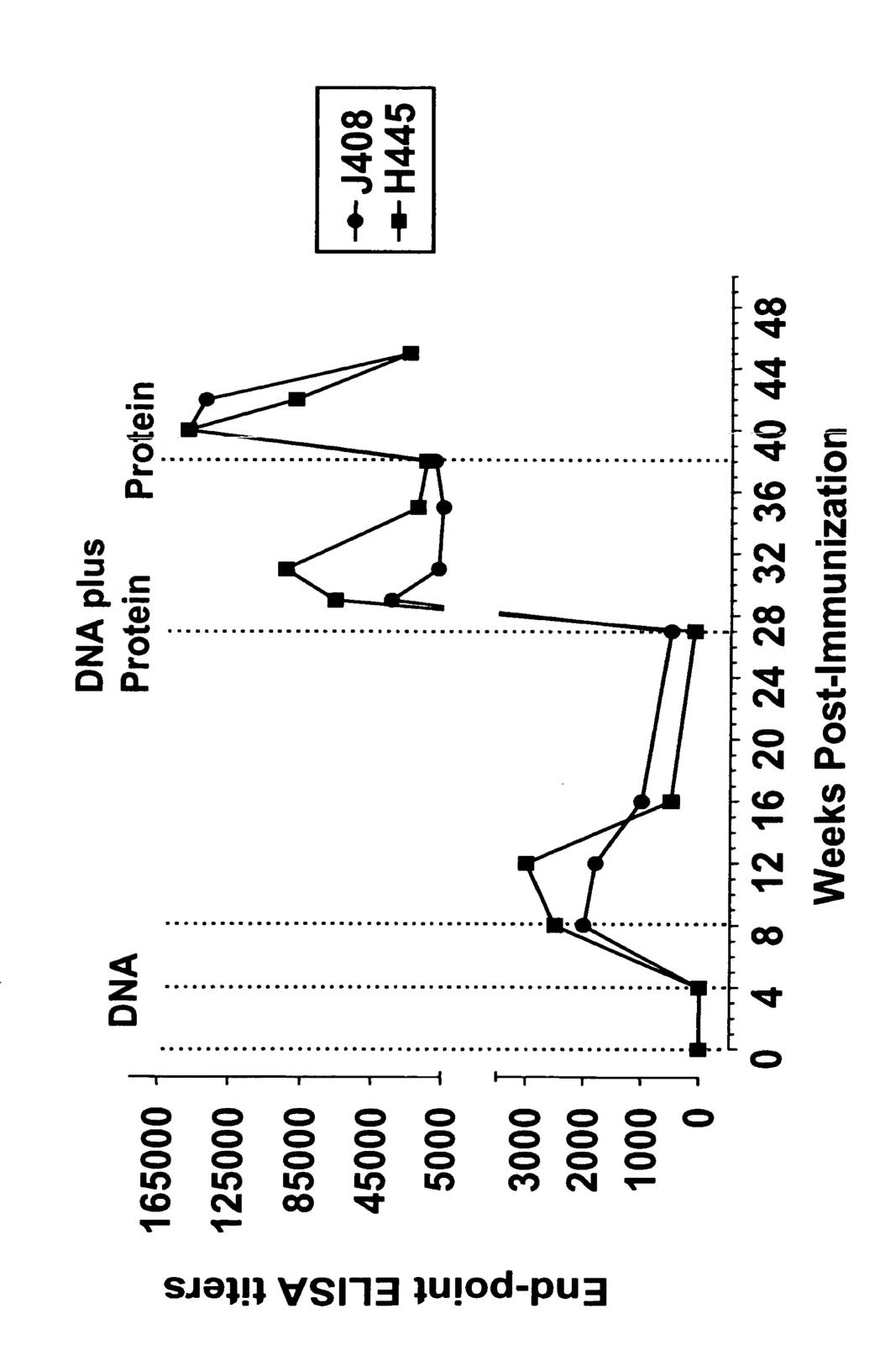
2570-1-001N FIGURE 9B

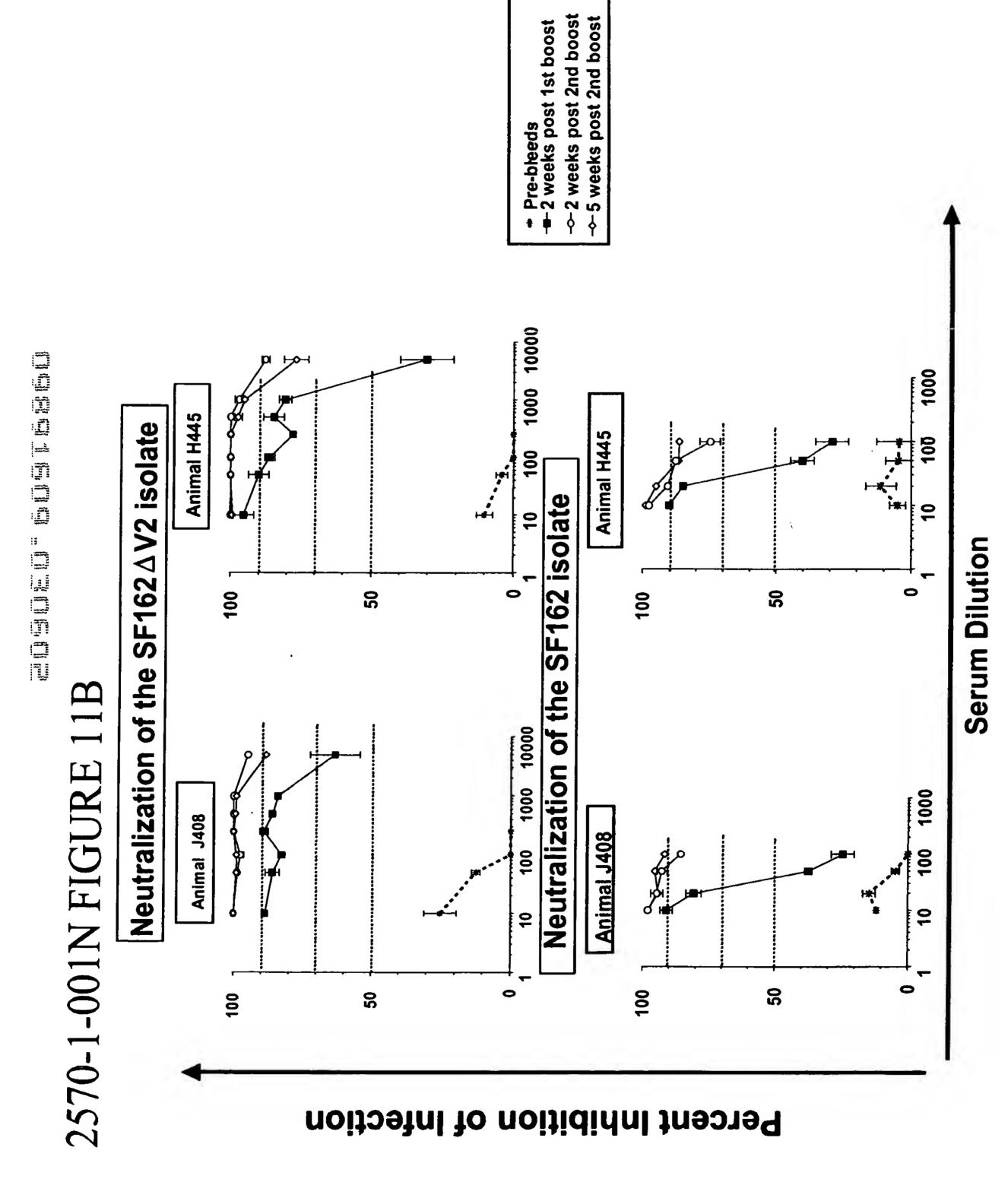
11921

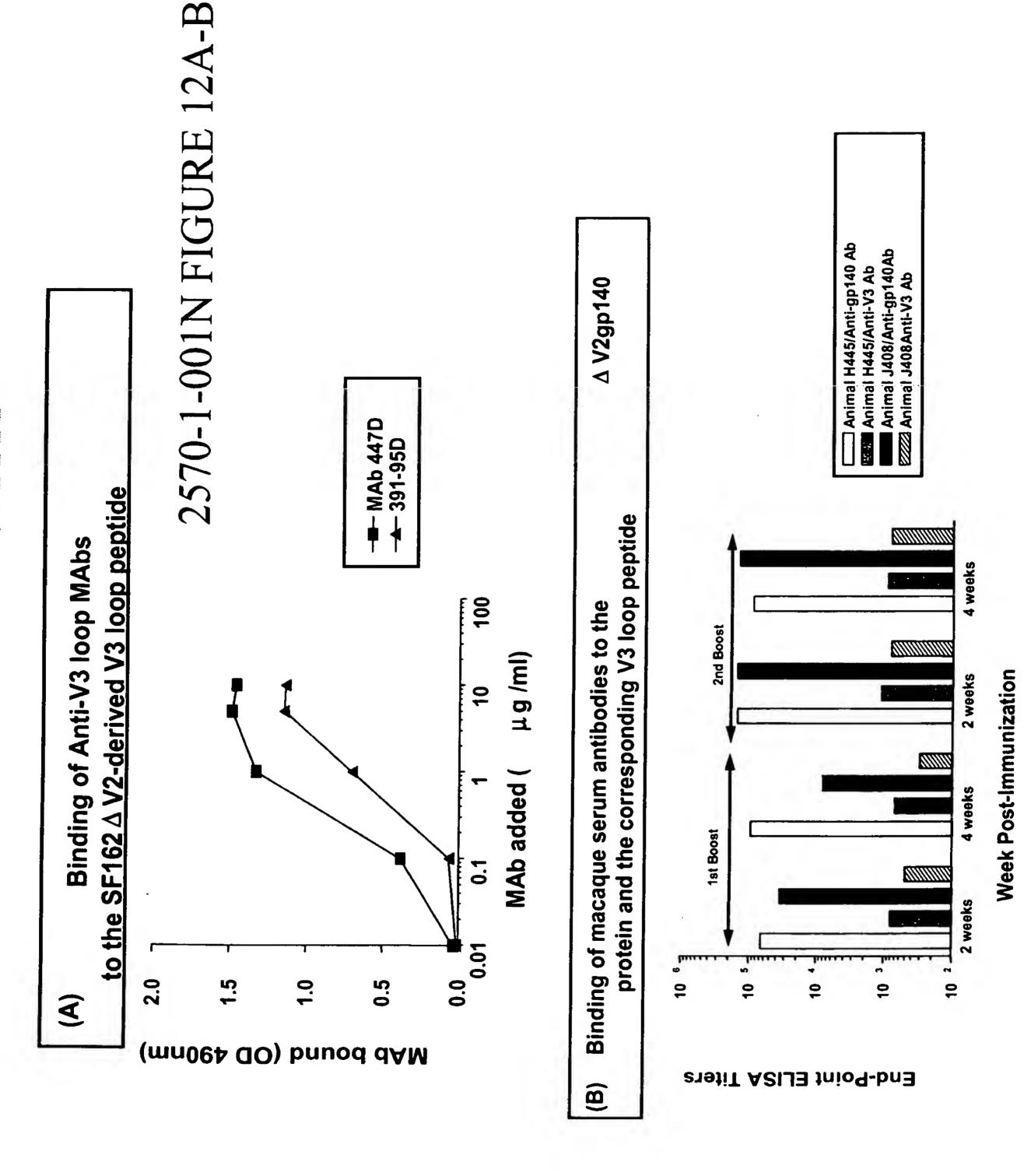
2570-1-001N FIGURE 10

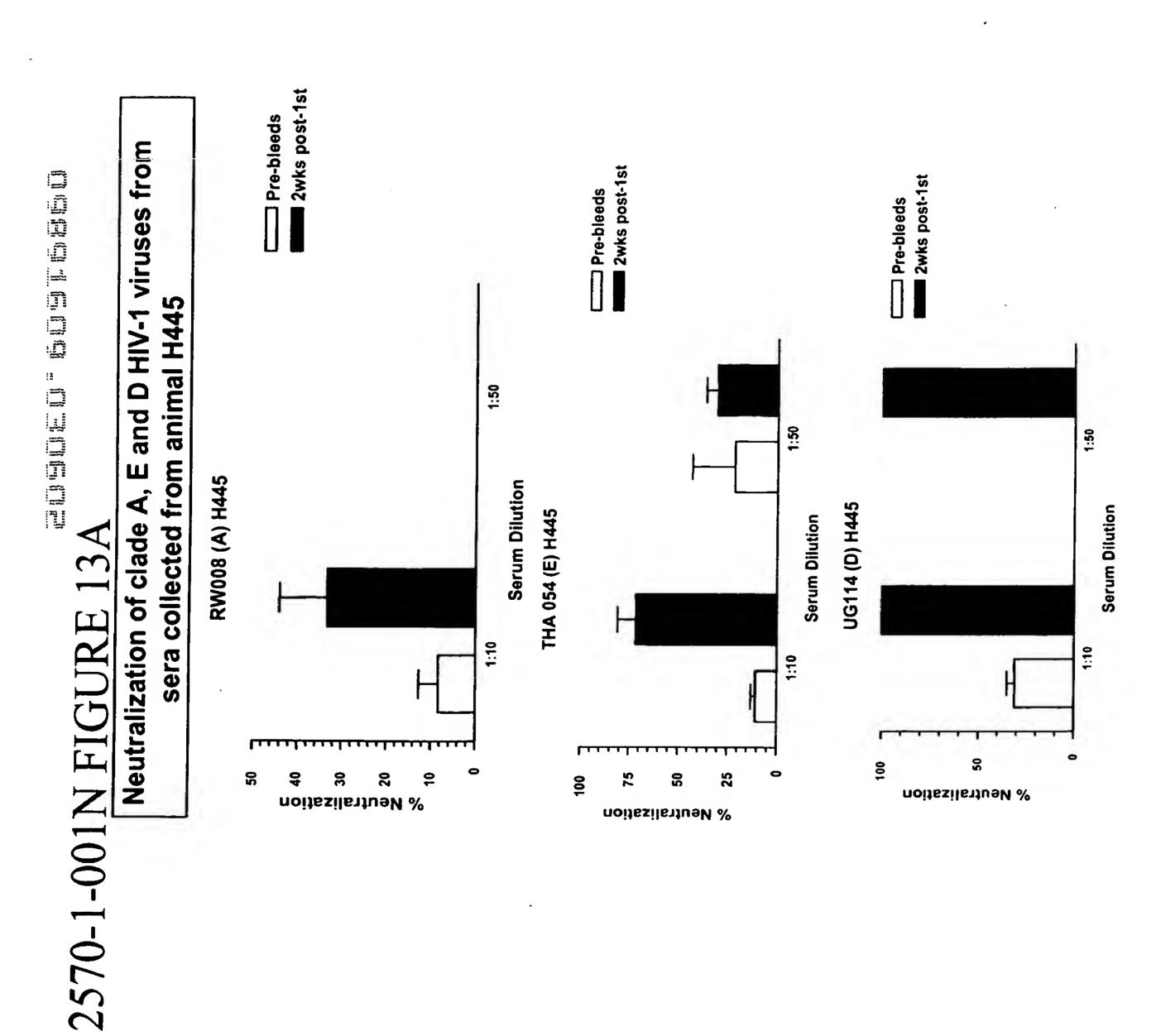


2570-1-001N FIGURE 11A

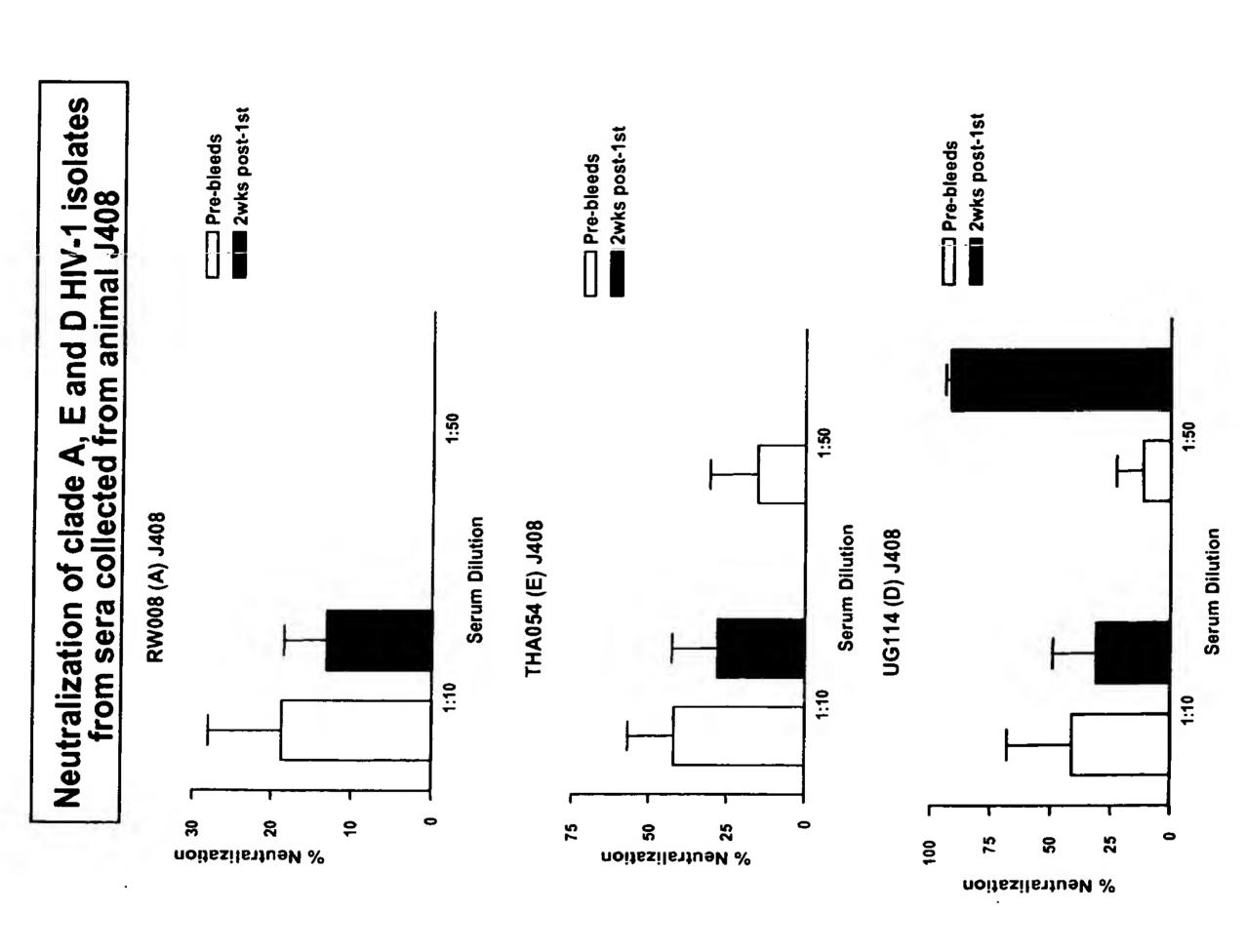








2570-1-001N FIGURE 13B



2570-1-001N FIGURE 14

tctattatgg ctaaagccta accetaacce ataacatggt catgtgtaaa ctaataccaa tcaaggtc gcaccttgct tgggtcacag atgtggaaaa agtctaaagc aagaatgcta gcatcagatg gtacccacag aattgctctt tggagagggg agaaaaattg tctattttgt aaattttaac cactaatttg acatgcctgt agaaataaaa atgggatcaa tcagcacttg gtagtgctgt tctgggccac tggacagagg caaccaccac atgtgacaga taatcagttt ctctacattg ggaagaatta atgatct cataatg aaagaag ttggaaa gaggata aaagaga tgtgtta ttg tgg gta cat gta ctc tgg aaggggatca ccttgggatg ggtacctgtg tgacacagag agaacagatg gttaacccca acaagaaata gagtagtaat atgagagtg

-GGA-GCT-GGAattgataaat tgtaacacct cagtcattac

aa

caaatattac gtacaaatgt tgctgttaaa acaatgctaa gagacataat acactttaaa ttaagcaatc ggcaggaagt agatcttcag tgcagagaga acctaaagga ctaacaataa aatttttcta caaataacac caggaagcac ctggtatagt tgcaactcac ctgctgtgcc ttgaagaatc ataaagtagt tgacctggat gggcaagttt ccccggctg cattattgtg tcaggaccat aatttcacag tgtacaagac tatgcaacag aaatggaata tgtggagggg ataaacaggt aacaccaccg tcaactcaat acaatagtct actatagggc ttgggagcag agatgctcat cagcatctgt agaagagtgg caattattgt gtggaaagat atttgcacca tggaataaca tacaccttaa ttggataagt ttatataaat aattcccata gttcaatgga gccagtagtg tagatctgaa agaaattaat gagagcattt tagtggagaa tgggaataaa cagttttaat ttggaataat aaaacaaatt aggacaaatt agagatcagt caaggcaaag ccttgggttc tggaaaactc ggatcagatt gagaagtgaa acaggccaga tgaggcgcaa aaacttaata attattagaa agtcctggct gtggtatata cctttgaacc atgataagaa taggaccggg ttaatagtac gggacaattg atggaattag aagcacaatt ttgtaatgca ctcccatcag gagctatgtt gggtagtaat aggaatctgt attgtaacat catgcagaat atggtggtaa tagcaccac cgctgacggt tgagagctat tccaggcaag ggggttgctc atgaacaaga caaaatggct ataaatctct acaattacac aggtat agtgta gtacac agacaagcac agcttt aagaag taacta atgtatgccc ggagatatga taggag cggtcactga agttggagta aaattg agctga aattac gacccagaaa cactcc caagag gtgacgctag aacaatttgc atcaagcagc aaaaga tttgacatat ctagggattt caat gcag gtac agta atca ttaa ccat agag caag ccaa ctaa acaa acac acaggcctgt ttttgcgatt aggagatata cagcacagta tggcagtcta tacaagaaaa acagatagtt ctcaggaggg aaaaagagca aactataata taatggaact aggaaaagca acctggaggt aaaaattgag tatgggcgca gcaacagcag agtctggggc tcaacagctc ttggaatgct ctgtaattca aggactgcta ggagtgggag gcagaaccaa gtggaattgg

2570-1-001N FIGURE 15

agtgctgt agaaaattg tgggtcacag tctattatgg

ctaaagccta acctaaccc catgtgtaaa ctaataccaa tcaaggtc gcatcagatg gtacccacag aagaatgcta atgtggaaaa agtotaaago aattgctctt tctattttgt acatgcctgt aaattttaac atgggatcaa cactaatttg agaaataaaa caaccaccac tctgggccac atgtgacaga ctctacattg tggacagagg taatcagttt gtattggaaa tggaaagaga tggaaagaag gtacataatg catgaggata ctctgtgtta ggtacctgtg gttaacccca tgacacagag acaagaaata agaacagatg gagtagtaat

-GGA-GCT-GGA-

aa

ttaagcaatc gtacaaatgt tgctgttaaa acaatgctaa ctaacaataa gagacataat aatttttcta caaataacac ggcaggaagt agatcttcag acactttaaa tgcagagaga caggaagcac tgcaactcac acctaaagga tgacctggat ccccggctgg caaatattac ataaagtagt ctggtatagt ctgctgtgcc gggcaagttt cattattgtg tcaggaccat aatttaacag tgtacaagac tatgcaacag tgtggagggg ataaacaggt aacaccaccg tcaactcaat aaatggaata acaatagtct actatagggc agatgeteat tggaataaca agaagagtgg ttgggagcag caattattgt atttgcacca tacaccttaa ttggataagt ttatataaat cagcatctgt gtggaaagat aattcccata gttcaatgga gccagtagtg tagatctgaa agaaattaat gagagcattt tagtggagaa tgggaataaa cagttttaat ttggaataat agagatcagt gagaagtgaa ggatcagatt attattagaa aaaacaaatt aggacaaatt caaggcaaag ccttgggttc acaggccaga tgaggcgcaa tggaaaactc aaacttaata gtggtatata agtcctggct atgataagaa taggaccggg ttaatagtac cctttgaacc atggaattag aagcacaatt ctcccatcag gggacaattg cgctgacggt atgaacaaga gggtagtaat aggaatctgt attgtaacat ttgtaatgca catgcagaat atggtggtaa tagcacccac gagctatgtt tccaggcaag ggggttgctc tgagagctat ataaatctct acaattacac ccaaaggtat ctaaagtgta caatgtacac gcagaagaag agtataacta agacaagcac acaaaattac acacagcttt atcacactcc atgtatgccc ggagatatga cggtcactga gtacagctga gacccagaaa ttaacaagag ccattaggag gtgacgctag aacaatttgc atcaagcagc agagaaattg ctagggattt agttggagta caagaaaaga acaggcctgt ttttgcgatt tggcagtcta aactataata aggagatata aggactgcta cagcacagta tacaagaaaa ctgtaattca taatggaact aggaaaagca tcaacagctc acagatagtt ctcaggaggg acctggaggt aaaaattgag aaaaagagca tatgggcgca agtctggggc gcaacagcag gcagaaccaa ggagtgggag

2570-1-001N FIGURE 16

Amino acid sequence of SF162AV2 gp140

VPVWKEATTTLFCASDAKAYDTEVHNVWATHACVPTDPNPQ MRVKGIRKNYOHLWRGGTLLLGMLMICSAVEKLWVTVYYG PLCVTLHCTNLKNATNTKSSNWKEMDRGEIKNCSFKV-GAG GSGPCTNVSTVQCTHGIRPVVSTQLLLNGSLAEEGVVIRSENF EIVLENVTENFNMWKNNMVEQMHEDIISLWDQSLKPCVKLT TDNAKTIIVQLKESVEI<u>N</u>CTRPN<u>N</u>NTRKSITIGPGRAFYATGDI TITLPCRIKQIINR WQEVGKAMY APPIRGQIRCSS<u>N</u>ITGLLTR IGDIRQAHC<u>N</u>ISGEKW<u>N</u>NTLKQIVTKLQAQFG<u>N</u>KTIVFKQSS GGDPEIVMHSFNCGGEFFYCNSTQLFNSTWNTIGPNNTNG ARVLAVERYLKDQQLLGIWGCSGKLICTTAVPW<u>N</u>ASWS<u>N</u>K DGGKEIS<u>N</u>TTEIFRPGGGDMRDNWRSELYKYKVVKIEPLGV TLTVQARQLLSGIVQQQNNLLRAIEAQQHLLQLTVWGIKLQ KLINCNTSVITQACPKVSFEPIPIHYCAPAGFAILKCNDKKFN SLDQIWNNMMTWMEWEREIDNYTNLIYTLIEESQNQQEKNE **APTKAKRVVQREKRAVTLGAMFLGFLGAAGSTMGARSL QELLELDKWASLWNWFDISKWLWYIK**

2570-1-001N FIGURE 1'

Amino acid sequence of SF162AV2 gp140 less 27 amino acid N -terminal sequence

SAVEKLWVTVYYG

VPVWKEATTTLFCASDAKAYDTEVHNVWATHACVPTDPNPQ PLCVTLHCTNLKNATNTKSSNWKEMDRGEIKNCSFKV-GAG-HGIRPVVSTOLLLNGSLAEEGVVIRSENF **EIVLE<u>N</u>VTENFNMWKNNMVEQMHEDIISLWDQSLKPCVKLT** TDNAKTIIVQLKESVEINCTRPNNNTRKSITIGPGRAFYATGDI TITLPCRIKQIINRWQEVGKAMYAPPIRGQIRCSS<u>N</u>ITGLLLTR IGDIRQAHC<u>N</u>ISGEKW<u>N</u>NTLKQIVTKLQAQFG<u>N</u>KTIVFKQSS GGDPEIVMHSFNCGGEFFYCNSTQLFNSTWNTIGPNTNG TLTVQARQLLSGIVQQQNNLLRAIEAQQHLLQLTVWGIKLQ **ARVLAVERYLKDQQLLGIWGCSGKLICTTAVPWNASWSNK** KLINCNTSVITQACPKVSFEPIPIHYCAPAGFAILKCNDKKFN DGGKEISMTTEIFRPGGGDMRDNWRSELYKYKVVKIEPLGV **APTKAKRVVQREKRAVTLGAMFLGFLGAAGSTMGARSL** SLDQIWNNMTWMEWEREIDNYTNLIYTLIEESQNQQEKNE **QELLELDKWASLWNWFDISKWLWYIK GSGPCTNVSTVQCT**